

Currency Service Tests Challenge

About the Application

Given is a simple application (POC) for currency converting.

The User-Interface provides:

- 1 Input for the amount (number) of the source currency
- 2 Selects, one for the source and one for the target currency

On every change in the UI the application calculates the target currency amount and displays it.

The application does not have the information about the currency rates which are used for the calculation, it should fetch them via a REST-API from a external service.

Your Tasks

Explain

Please explain the InMemoryDataService.

- What is it for
- How does it work
- What is the advantage to use it in this state of the application

Write Tests

Currently the application is implemented and manually tested. The next step is to write automated „unit“ tests.

Hint: Angular provides a set of best practices to test services and components.

Please write tests to:

- Test the currency converter service on its own (hint: mock the http call)
- Test the currency component on its own
- Test the currency component with the HTML template
 - o E.g. check that the defaults values are set
 - o Find further useful test-cases (at least one)

For every of the test-cases above, please describe what goal do we achieve or which advantage do they get us.

Present your results in the Interview.

Refactoring (optional)

If you see any potential for refactoring or improvements, mark them and explain why you thing that they are useful.